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SUMMARY OF
THE JAPANESE XIPHYDRIA-SPECIES.

By

PROF. S. MATSUMURA.

In Japan the following 9 species of *Xiphydria* are known:

1. *Xiphydria buyssoni* KNW.

Xiphydria buyssoni KNW., Zeit. Hym. und Dipt. Band. III, p. 105 (1903).

Hab.—Honshu (Tokyo, Nikko); the author has only 2 female specimens collected on the 29th of July, 1917, by E. GALLOIS at Chuzenji.

2. *X. eborata* KNW.

Xiphydria eborata KNW., Ent. Nachr. V. 25, p. 75 n. 1 (1899); Zeit. Hym. und Dipt. Band V, p. 53 (1905).

Hab.—Honshu (Tokyo).

The author has no specimen of this species, but *X. kuccharonis* seems to be very near to this species.

3. *X. ruficeps* MATS.

Xiphydria ruficeps MATS., Thous. Ins. Jap. Suppl. IV, p. 120, pl. LIV, fig. 22, ♀ (1912).

Hab.—Hokkaido (Sapporo, Teshio, Jozankei).

The author has 4 female specimens collected in the middle of July.

4. *X. kawakamii* n. sp.

Xiphydria buyssoni MATS. (nec KNW.), Jour. Coll. Agr. Tohoku Imp. Univ. Sapporo, Japan, p. 85, Taf. II, fig. 2 (1911).

Hab.—Hokkaido.

5. *X. kuccharonis* n. sp.

Hab.—Hokkaido (Kushiro).

6. *X. jezoensis* n. sp.

Xiphydria eborata MATS. (nec KONOW.), Thous. Ins. Jap. Suppl. IV, p. 24, pl. XLIII, fig. 8, ♀ (1912).

Hab.—Hokkaido.

7. *X. jozana* n. sp.

Hab.—Hokkaido.

8. *X. ogasawarai* n. sp.

Hab.—Honshu.

9. *X. alnivora* n. sp.

Hab.—Hokkaido.

SYNOPSIS OF THE FEMALE.

- 1. Antennae entirely black 2.
- Antennae partly white or yellowish... .. 5.
- 2. Legs entirely black; head red *ruficeps* MATS.
- Legs red and black; head black. 3.
- 3. Vertex with 4 yellowish stripes.. *kawakamii* n. sp.
- Vertex with 2 yellowish stripes 4.
- 4. Antennae 16 jointed; ovipositor as long as the last 2 dorsal segments taken together... ..
- *eborata* KNW.
- Antennae 17-18 jointed; ovipositor shorter than the last 2 dorsal segments taken together..
- *kuccharonis* n. sp.
- 5. Legs black, only the basal and apical joints being fuscous or grey 6.
- Legs yellow or reddish 7.
- 6. Three apical joints of the antenna fuscous, the 2nd as long as the 4th... .. *ogasawarai* n. sp.
- Two apical joints of the antenna fuscous, the 2nd longer than the 4th *alnivora* n. sp.
- 7. Legs yellow; the 2nd abdominal segment with a yellow band.. *buyssoni* KNW.
- Legs reddish; the 2nd abdominal segment with no yellowish band... .. *jezoensis* n. sp.

SYNOPSIS OF THE MALE.

The author knows only the following 3 species.

- 1. Antennae entirely black; abdomen with reddish yellow markings *jozana* n. sp.
- Antennae beneath largely yellow or reddish brown 2.
- 2. Antennae beneath largely yellow; vertex with 2 yellow spots *alnivora* n. sp.
- Antennae beneath reddish brown; vertex with 2 yellow stripes *kawakamii* n. sp.

DESCRIPTIONS OF NEW SPECIES.

1. *Xiphydria kawakamii* n. sp.

Xiphydria buyssoni MATS. (nec KONOW), Journ. Coll. Agr. Tohoku Imp. Univ. Sapporo, Japan, p. 85, Taf. II, fig. 2 (1911).

♀. Antennae 19 jointed, except both ends of the 1st joint and the apex of the 2nd which are reddish brown, black and beneath brownish; the 2nd joint only half the length of the 3rd, somewhat shorter than the 4th.

Vertex with 4 yellowish stripes, the outer 2 of which are narrower and excurved, being sometimes shortened. Pronotum on the lateral hind margins with each a yellowish marking, preceded by a small concolorous spot; tegulae yellowish, in the middle fuscous; scutellum and postscutellum entirely black.

Last abdominal segment on each lateral margin with a small yellowish spot; ovipositor nearly as long as the last segment.

Legs fuscous, only the tibiae, the hind tarsi except the apical joints which are dark brown, and both ends of the femora, reddish brown.

♂. Differs from the female in having 2 yellowish stripes on the vertex and 2 smaller, oblong, pale yellowish spots to the 7th and 8th abdominal segments, those of the 8th being very small, and having a pale yellowish membrane between the cenchri.

Length—♂ 14 mm., ♀ 20–22 mm.

Hab.—Hokkaido (Oshamanbe, Sapporo, Kuccharo); numerous specimens were collected in June and July by the author.

The imago is noted as a silk-worm killer; it was first reported by JURO KAWAKAMI that this insect enters in the house and pull away silk-worm. The arva bores in under the bark of the *Alnus*-tree.

2. *Xiphydria kuccharonis* n. sp.

Closely allied to *X. kawakamii* MATS., but differs from it as follows:

♀. Body much smaller. Antennae 17 jointed, the 2nd joint much shorter than the 4th, underside being not paler. Vertical stripes only 2, lacking the lateral smaller ones; frontal depression smaller and deeper, wanting the smaller yellowish spot above the antenna; temporal stripe in the middle narrower, but not sinuated; parasidial grooves on the mesonotum smaller and deeper; tegulae black. Last abdominal segment on each lateral margin with no yellowish spot; Legs nearly the same, but the tarsi dark brown.

Length—♀ 15–18 mm.

Hab.—Hokkaido (Kushiro); 4 female specimens were collected in the middle of August, 1917, by the author at Kuccharo.

3. *Xiphydria jozana* n. sp.

Closely allied to *X. kawakamii* MATS., but differs from it as follows:

♂. Antennae 18 jointed, underside black, the 2nd joint nearly half the length of the 4th. Mandible black. Frons less granulated, lacking a yellowish spot above each antenna; vertical stripes shorter, not reaching the occiput. The yellowish spots on the shoulder of the pronotum obsolete; mesonotum on the anterior $\frac{1}{3}$ less granulated and wrinkled. No mesopleural spot nor basal stripe on the 1st abdominal segment. Abdomen transversely and rugosely aciculated, and narrowly and transversely grooved before the anterior margins of the 2nd, 3rd and 4th segments; abdominal marking brownish yellow, those of the 4th and 5th L-shaped, those of the 6th–8th being very small.

Tarsi, except the apex of each joint which is reddish brown, fuscous.

Length—♂ 16 mm.

Hab.—Hokkaido (Jozankei near Sapporo); one male specimen was collected on the 16th of July, 1926, by the author.

4. *Xiphydria jezoensis* n. sp.

Xiphydria eborata MATS. (nec KONOW), Thous. Ins. Jap. Suppl. IV, p. 24, pl. XLIII, fig. 8, ♀ (1912).

Differs from *X. eborata* KNW. as follows.

♀. Antennae 18 jointed, yellowish white, the basal 3 joints, except the apex and underside of the 2nd, and the apical joint, black. Mandible yellowish brown, at the base and apex somewhat infuscated, being strongly punctated. Clypeus at the anterior margin sinuated, in the middle with a short tooth, longitudinally fine grooved, having no yellowish white marking; vertex with 2 short yellowish stripes, occiput shining, polished, frons strongly granulated and punctated; at the innerside of the eye with a yellowish spot; temporal stripe somewhat broader just below the eye and where is somewhat aciculated. No yellowish spot on the pronotum; tegulae brownish, on the outer margin yellowish. Legs reddish brown, coxae, trochanter, the bases of the femora, and the middle and posterior tibiae, fuscous. The 2nd abdominal segment with no yellowish spot.

Length—♀ 14-20 mm.

Hab.—Hokkaido (Sapporo); numerous specimens were collected in the middle of June on *Alnus*. The larva bores in under the bark of the old or decaying tree, but the imago seems to be carnivorous.

5. *Xiphidria ogasawarai* n. sp.

♀. Mandible brown, at the apex fuscous.

Antennae 15 jointed, except the first 3 joints and the basal $\frac{2}{3}$ of the 4th and a spot on the 5th which are black, the apical 3 joints which are dark grey, milky white; the 2nd joint somewhat curved at the base, subequal to the 4th, the 1st somewhat shorter than the 3rd and 4th taken together, the apical joint distinctly shorter than the penultimate, the 13th longer than the 14th. Clypeus between the antennae with no yellowish spot; a short bar at the innerside of the eye, 2 short bars on the vertex and a narrow temporal stripe, yellowish. Pronotum on the hind margin, and the prosternum, with no yellowish marking; tegulae black. Wings hyaline, somewhat infuscated, with a small fuscous spot near the apex of the 3rd discoidal cell; all the veins dark brown. Abdomen with a pale yellowish spot on each side of the 4th-6th segments; in a certain light with a series of reddish specks; the 1st segment between the cenchri on the back white. Ovipositor shorter than the last dorsal segment. Legs en-

tirely black.

Length—♂ 10 mm., ♀ 13 mm.

Hab.—Honshu, Hokkaido; one female specimen was collected in the middle part of June, 1911, by T. OGASAWARA at Iwate.

6. *Xiphydria alnivora* n. sp.

Closely allied to *X. ogasawarai* MATS., but differs it as follows:

♀. Antennae 19 jointed, towards the apex distinctly thicker than that of *ogasawarai*, the apical joint fuscous, subequal to the penultimate; the 2nd distinctly longer than the 4th, being not curved at the base. Occiput, with a transverse groove parallel to the marginal ridge, punctated. Mesonotum more rugosely wrinkled and punctated. Tegulae dark brown. The 1st abdominal segment between the cenchri with a pale yellowish membrane; on the back not reflecting a series of reddish specks; the 2nd segment on each lateral margin narrowly white.

Male differs in having black antennae, except the underside of the 3rd-6th joints which are pale yellow, reddish brown tibiae and tarsi, and 3 yellowish spots in a longitudinal series on the venter of the abdomen.

Length—♂ 10 mm., ♀ 13 mm.

Hab.—Hokkaido (Sapporo); one female and one male specimens were collected in the middle of July on the Alder-tree.

摘 要

本邦産頸長蜂の總説

本邦に産する頸長蜂は九種ありて、其内左の六種は新種なり。

1. <i>Xiphydria kawakamii</i> MATS. (n. sp.)	カハカミクビナガバチ
2. <i>X. kuccharonis</i> MATS. (n. sp.)	クツチャロクビナガバチ
3. <i>X. jezoensis</i> MATS. (n. sp.)	エゾクビナガバチ
4. <i>X. jozana</i> MATS. (n. sp.)	ジョウザンクビナガバチ
5. <i>X. ogasawarai</i> MATS. (n. sp.)	オガサハラクビナガバチ
6. <i>X. alnivora</i> MATS. (n. sp.)	ハンノクビナガバチ
